

Algebra:

Solving Multi - Step

Inequalities

Riddle Worksheet

Name: _____ Hour: _____

ANSWER KEY

How Did A Fisherman Determine How Many Fish He Needed To Catch To Make A Profit? (Solving Multi-Step Inequalities Practice)

Directions: Solve each problem to find the value of x and find its matching answer in the answer box. Decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

Answer:

| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| $\frac{H}{4}$ | $\frac{E}{11}$ | $\frac{U}{1}$ | $\frac{S}{9}$ | $\frac{E}{11}$ | $\frac{D}{3}$ | $\frac{A}{8}$ | $\frac{C}{2}$ |
| $\frac{I}{13}$ | $\frac{N}{7}$ | $\frac{E}{11}$ | $\frac{Q}{10}$ | $\frac{U}{1}$ | $\frac{A}{8}$ | | |

1. $2x + 7 \geq -1$
 $x \geq -4$
 (U)

2. $7x + 3 > -18$
 $x > -3$
 (C)

4. $8 - 2x \geq 26$
 $x \leq -9$
 (H)

5. $6(x + 1) > 6$
 $x > 0$
 (L)

Name: _____ Hour: _____

ANSWER KEY

How Did A Fisherman Determine How Many Fish He Needed To Catch To Make A Profit? (Solving Multi-Step Inequalities Practice)

Directions: Solve each problem to find the value of x and find its matching answer in the answer box. Decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

Answer:

| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| $\frac{H}{4}$ | $\frac{E}{11}$ | $\frac{U}{1}$ | $\frac{S}{9}$ | $\frac{E}{11}$ | $\frac{D}{3}$ | $\frac{A}{8}$ | $\frac{C}{2}$ |
| $\frac{I}{13}$ | $\frac{N}{7}$ | $\frac{E}{11}$ | $\frac{Q}{10}$ | $\frac{U}{1}$ | $\frac{A}{8}$ | | |

7. $10 - 11x > -5x - 2$
 $x < 2$
 (N)

8. $-8x + 7 < -4x$
 $x > 3$
 (A)

10. $15 \leq \frac{x}{4} + 9$
 $x \geq 24$
 (Q)

11. $-\frac{x}{2} - 2 \leq 4$
 $x \geq -12$
 (E)

13. $-8(x - 1) - x \leq -28$
 $x \geq 4$
 (I)

14. $-7(x + 5) \geq -21$
 $x \leq -3$
 (O)

Answer Box:

| | | | |
|--------------|--------------|----------------|---------------|
| A $x > 3$ | C $x > -3$ | D $x \leq -15$ | E |
| I $x \geq 4$ | L $x > 0$ | N $x < 2$ | O $x \leq -3$ |
| R $x < -25$ | S $x \geq 7$ | T $x > -54$ | U $x \geq -4$ |
| | | | Y $x \geq -7$ |



Name: _____ ANSWER KEY _____ Hour: _____

How Did A Fisherman Determine How Many Fish He Needed To Catch To Make A Profit? (Solving Multi-Step Inequalities Practice)

Directions: Solve each problem to find the value of x and find its matching answer in the answer box. Decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

Answer:

| | | | | | | | | | | | | | | | |
|---------------|----------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|
| $\frac{H}{4}$ | $\frac{E}{11}$ | $\frac{U}{1}$ | $\frac{S}{9}$ | $\frac{E}{11}$ | $\frac{D}{3}$ | $\frac{A}{8}$ | $\frac{C}{2}$ | $\frac{O}{14}$ | $\frac{D}{3}$ | $\frac{-}{6}$ | $\frac{R}{8}$ | $\frac{A}{12}$ | $\frac{T}{13}$ | $\frac{I}{2}$ | $\frac{C}{2}$ |
|---------------|----------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|

| | | | | | | | | | | |
|----------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|----------------|---------------|
| $\frac{I}{13}$ | $\frac{N}{7}$ | $\frac{E}{11}$ | $\frac{Q}{10}$ | $\frac{U}{1}$ | $\frac{A}{8}$ | $\frac{L}{5}$ | $\frac{I}{13}$ | $\frac{T}{12}$ | $\frac{Y}{15}$ | $\frac{!}{-}$ |
|----------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|----------------|---------------|

1. $2x + 7 \geq -1$

$x \geq -4$
(U)

2. $7x + 3 > -18$

$x > -3$
(C)

3. $3(x + 4) \leq -33$

$x \leq -15$
(D)

4. $8 - 2x \geq 26$

$x \leq -9$
(H)

5. $6(x + 1) > 6$

$x > 0$
(L)

6. $-2(x + 4) > 42$

$x < -25$
(R)

7. $10 - 11x > -5x - 2$ 8. $-8x + 7 < -4x - 5$ 9. $-9x \leq -7x - 14$

$x < 2$
(N)

$x > 3$
(A)

$x \geq 7$
(S)

10. $15 \leq \frac{x}{4} + 9$

11. $-\frac{x}{2} - 2 \leq 4$

12. $\frac{x+6}{4} > -12$

$x \geq 24$
(Q)

$x \geq -12$
(E)

$x > -54$
(T)

13. $-8(x-1) - x \leq -28$ 14. $-7(x+5) \geq -2(x+10)$ 15. $2x - 1 \leq 5x + 20$

$x \geq 4$
(I)

$x \leq -3$
(O)

$x \geq -7$
(Y)

Answer Box:

| | | | | |
|---------------------|---------------------|-----------------------|-----------------------|----------------------|
| A $x > 3$ | C $x > -3$ | D $x \leq -15$ | E $x \geq -12$ | H $x \leq -9$ |
| I $x \geq 4$ | L $x > 0$ | N $x < 2$ | O $x \leq -3$ | Q $x \geq 24$ |
| R $x < -25$ | S $x \geq 7$ | T $x > -54$ | U $x \geq -4$ | Y $x \geq -7$ |

Name: _____ Hour: _____

How Did A Fisherman Determine How Many Fish He Needed To Catch To Make A Profit? (Solving Multi-Step Inequalities Practice)

Directions: Solve each problem to find the value of x and find its matching answer in the answer box. Decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

Answer:

$\overline{4}$ $\overline{11}$ $\overline{1}$ $\overline{9}$ $\overline{11}$ $\overline{3}$ $\overline{8}$ $\overline{2}$ $\overline{14}$ $\overline{3}$ $\overline{\quad}$ $\overline{6}$ $\overline{8}$ $\overline{12}$ $\overline{13}$ $\overline{2}$

$\overline{13}$ $\overline{7}$ $\overline{11}$ $\overline{10}$ $\overline{1}$ $\overline{8}$ $\overline{5}$ $\overline{13}$ $\overline{12}$ $\overline{15}$ $\overline{\quad}!$

1. $2x + 7 \geq -1$

2. $7x + 3 > -18$

3. $3(x + 4) \leq -33$

4. $8 - 2x \geq 26$

5. $6(x + 1) > 6$

6. $-2(x + 4) > 42$

7. $10 - 11x > -5x - 2$ 8. $-8x + 7 < -4x - 5$ 9. $-9x \leq -7x - 14$

10. $15 \leq \frac{x}{4} + 9$

11. $-\frac{x}{2} - 2 \leq 4$

12. $\frac{x+6}{4} > -12$

13. $-8(x-1) - x \leq -28$ 14. $-7(x+5) \geq -2(x+10)$ 15. $2x-1 \leq 5x+20$

Answer Box:

| | | | | |
|---------------------|---------------------|-----------------------|-----------------------|----------------------|
| A $x > 3$ | C $x > -3$ | D $x \leq -15$ | E $x \geq -12$ | H $x \leq -9$ |
| I $x \geq 4$ | L $x > 0$ | N $x < 2$ | O $x \leq -3$ | Q $x \geq 24$ |
| R $x < -25$ | S $x \geq 7$ | T $x > -54$ | U $x \geq -4$ | Y $x \geq -7$ |

THANK YOU
for downloading this product!



Please stop back by my store and let me know how it went in your classroom! Follow me for updates and new products!

<http://www.teacherspayteachers.com/Store/Secondary-Math-Shop>

Find me at:

Email: secondarymathshop@gmail.com

Pinterest: <http://www.pinterest.com/secondarymthshp/>

© Secondary Math Shop 2014

All right reserved by the author. The purchase of this product is for a single classroom use only. No part of this product may be distributed, published, or transmitted electronically or otherwise, without the written permission of the author. This product may not be posted on the internet, classroom or district websites included. Additional licenses for department members or other teachers may be purchased from my store at a discount price!